

HW1Code – Ruth Steinberg

1. AddTwo.java:

```
public class AddTwo {  
  
    public static void main(String[] args) {  
  
        //gets 2 numbers from the command-line and define them as a  
variable of type int  
  
        int num1 = Integer.parseInt(args[0]);  
  
        int num2 = Integer.parseInt(args[1]);  
  
        // define a new variable "sum" that represents the sum of num1  
and num2  
  
        int sum = num1+num2;  
  
        // print  
  
        System.out.println(" " + num1 + " + " + num2 + " = " + sum);  
  
    }  
  
}
```

2. Coins.java:

```
public class Coins {  
  
    public static void main(String[] args) {  
  
        //get number of cents from the command-line and define him as  
a variable of type int  
  
        int sumCents = Integer.parseInt(args[0]);  
  
        // calculate the amount of quarters  
  
        int quarters = sumCents / 25;  
  
        // calculate the remaining cents  
  
        int cents = sumCents - (quarters*25);  
  
        // print  
  
        System.out.println("Use " + quarters + " quarters and " + cents + "  
cents");  
    }  
}
```

3. LinearEq.java:

```
public class LinearEq {  
  
    public static void main(String[] args){  
  
        //get 3 numbers from the command-line and define them as a variable of  
type double  
  
        double a = Double.parseDouble(args[0]);  
  
        double b = Double.parseDouble(args[1]);  
  
        double c = Double.parseDouble(args[2]);  
  
        // calculate x:  $a \cdot x + b = c \Rightarrow a \cdot x = c - b \Rightarrow x = (c - b) / a$ .  
  
        double x = (c-b)/a;  
  
        // print  
  
        System.out.println(a + " * x + " + b + " = " + c + "\n" + "x = " + x);  
  
    }  
  
}
```

4. Triangle.java:

```
public class Triangle {  
  
    public static void main(String[] args) {  
  
        //gets 3 numbers from the command-line and define them as a variable  
        of type int  
  
        int a = Integer.parseInt(args[0]);  
  
        int b = Integer.parseInt(args[1]);  
  
        int c = Integer.parseInt(args[2]);  
  
        // define a boolean variable that represent the answer (if the 3 numbers  
        can form triangle)  
  
        // check if any two sides is greater than the length of the remaining side  
  
        boolean answer = (((a+b)>c) && ((b+c)>a) && ((a+c)>b));  
  
        // print the 3 numbers and the answer  
  
        System.out.println(a + ", " + b + ", " + c + ": " + answer);  
  
    }  
  
}
```

5. Gen3:

```
public class GenThree {  
    public static void main(String[] args) {  
        // get 2 numbers from the command-line that represents the min and the  
max of the range  
        int start = Integer.parseInt (args[0]);  
        int end = Integer.parseInt (args[1])-1;  
        // create 3 variable from type int, that any variable is random number  
between arg[0] and arg[1]  
        int a = (int)((Math.random()*(end-start+1))+start;  
        int b = (int)((Math.random()*(end-start+1))+start;  
        int c = (int)((Math.random()*(end-start+1))+start;  
        // create new variable that represents the smallest number from a, b.  
        int min = Math.min(a, b);  
        // create new variable (finel min) that represents the smallest number  
from min, c.  
        int fMin = Math.min(min, c);  
        // print  
        System.out.println (a);  
        System.out.println (b);  
        System.out.println (c);  
        System.out.println ("The minimul generated number was: " + fMin);  
    }  
}
```